

Patent Abstracts of Japan

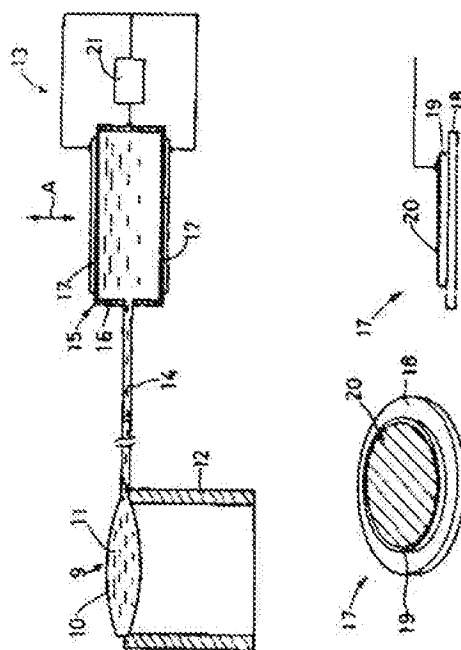
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APPLICANT : MURATA MFG CO LTD;

INVENTOR : TANAKA KATSUHIKO;

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TITLE : FOCUS POSITION CONTROL
 MECHANISM OF LENS



ABSTRACT : PURPOSE: To reduce the power consumption by changing the inside capacity of a vessel connected to the internal space of a lens to change the inside capacity of the lens through a fluid and changing the focus position of the lens in accordance with this change.

CONSTITUTION: Flexible plastic sheets 10 through which a laser light is transmitted are stuck into a bag shape to produce a lens 9. Piezoelectric bodies 17 are attached to the upper face and the lower face of a cylindrical body 16 consisting of metallic materials to obtain a vessel 15, and this vessel 15 is connected to an internal space 11 of the lens 9 by a connection path 14. When a driving voltage is applied to both electrodes of a capacity adjuster 13, the inside capacity of the vessel is changed by bending of piezoelectric bodies 17 in the direction of an arrow A, and this change is transmitted to the internal space 11 of the lens 9 through the fluid, and the inside capacity of the lens 9 is changed. Therefore, the radius of curvature of the lens 9 is changed, and the focal length is changed in accordance with this change. By this constitution, the focal length of the lens is changed without requiring a large power consumption.

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